## TENNESSEE DIVISION OF GEOLOGY MAPS AND PUBLICATIONS REPORTS OF INVESTIGATIONS

1.	GEOLOGIC SOURCE AND CHEMICAL QUALITY OF PUBLIC GROUND WATER SUPPLIES IN WESTERN TENNESSEE, 69 p., by C.R. Lanphere (1955). Prepared in cooperation with U.S. Geological Survey. Source, daily pumpage, storage information, and complete chemical analyses of water from wells supplying 62 towns in 21 West Tennessee counties. (SUPPLY LIMITED)	\$1.00
2.	POST-PALEOZOIC STRATIGRAPHY OF WESTERN TENNESSEE AND ADJACENT PORTIONS OF THE UPPER MISSISSIPPI EMBAYMENT, 29 p., by R.G. Stearns and C.A. Armstrong (1955). Prepared in cooperation with U.S. Geological Survey. Environmental relationships, electric-log correlations, isopach, sand distribution, and structural data on 5 key post-Paleozoic units. (SUPPLY LIMITED)	\$1.00
4.	GROUND WATER IN THE CENTRAL BASIN OF TENNESSEE, 81 + v p., by Roy Newcome, Jr. (1958). A progress report on underground water conditions, prepared in cooperation with U.S. Geological Survey. Contains, in tabular form, records of more than 600 wells in 17 Middle Tennessee counties	\$2.75
7.	GEOLOGY OF GROUND-WATER RESOURCES OF THE DYERSBURG QUADRANGLE, TENNESSEE, 61 p., 10 figs., 3 pls., 5 tables, by Raymond L. Schreurs and Melvin V. Marcher (1959). Prepared in cooperation with the U.S. Geological Survey. Geology, hydrology, and water resources of a 240-square-mile area in the Mississippi Embayment. Plates (in pocket) include a geologic map in color (scale 1:63,360) with cross sections, a physiographic map in color, and a water resources map	\$2.00
8.	STRUCTURE OF THE CUMBERLAND PLATEAU, TENNESSEE, 13 p., (reprinted from Bulletin of the Geological Society of America, 1958), by Charles W. Wllson, Jr., and Richard G. Stearns (1958). Reprinted (1993). Discusses the origin of faults and other structural features of the area, and their relationship to regional structure	\$2.00
11.	PENNSYLVANIAN MARINE CYCLOTHEMS IN TENNESSEE, 15 p. (reprinted from Bulletin of the Geological Society of America (1960), 9 figs., by Charles W. Wilson, Jr., and Richard G. Stearns (1960). Stratigraphy and paleogeography. (SUPPLY LIMITED)	\$1.00
12.	GEOLOGY OF THE MASCOT-JEFFERSON CITY ZINC DISTRICT, TENNESSEE, 29 + ii p., 3 pls., by C.R.L. Oder and James E. Ricketts (1961). Geology and geological problems of the ore deposits; road log; Young mine tour. (SUPPLY LIMITED)	\$2.00
17.	TUSCALOOSA FORMATION IN TENNESSEE, 22 p. (reprinted from Bulletin of the Geological Society of America, 1962), 11 figs., 2 pls., 2 tables, by Melvin V. Marcher and Richard G. Stearns (1962). Reprinted 2001. Size distribution, mineralogical composition, areal extent, origin	\$3.00
18.	LATE CRETACEOUS AND SUBSEQUENT STRUCTURAL DEVELOPMENT OF THE NORTHERN MISSISSIPPI EMBAYMENT AREA, 8 p. (reprinted from the Bulletin of the Geological Society of America, 1962), 5 figs., by Richard G. Stearns and Melvin V. Marcher (1962). Reprinted 2001. Structural interpretations	\$1.55
19.	THE BROWN IRON ORES OF EAST TENNESSEE, 63 p., 2 figs., 2 tables, by Stuart W. Maher (1964). History of mining and refining; geology of the ores. Appendix of mines and furnaces	\$2.00
22.	THE PHYSIOGRAPHY OF SEQUATCHIE VALLEY AND ADJACENT PORTIONS OF THE CUMBERLAND PLATEAU, TENNESSEE, 15 p. (reprinted from Southeastern Geology, 1967), 6 figs., 1 table, by Robert C. Milici (1968)	\$1.00
23.	PAPERS ON THE STRATIGRAPHY AND MINE GEOLOGY OF THE KINGSPORT AND MASCOT FORMATIONS (LOWER ORDOVICIAN) OF EAST TENNESSEE, 90 p. (1969)	\$2.50
25.	CERAMIC EVALUATION OF CLAYS AND SHALES IN EAST TENNESSEE, 22 p., 1 fig., 4 tables, by R. P. Hollenbeck and M.E. Tyrell (1969). Of the 60 samples tested, 34 were evaluated as suitable for making face brick and structural tile; none was suitable for making lightweight aggregate by the rotary-kiln method. Prepared in cooperation with the U.S. Bureau of Mines	\$1.00

26.	STRATIGRAPHY OF THE FORT PILLOW TEST WELL, LAUDERDALE COUNTY, TENNESSEE, by Gerald K. Moore and Donald L. Brown (1969). Chart approximately 18x42 inches, showing electric log with multiple electrode resistivity curves, stratigraphic interpretation, drill sample descriptions, and geologic cross section; text printed on reverse side. Prepared in cooperation with U.S. Geological Survey	\$2.00
27.	ANOMALOUS ZINC IN WATER WELLS, NORTHEASTERN HENRY COUNTY, TENNESSEE, 11 p., 5 figs., 6 tables, by Robert E. Hershey and John M. Wilson (1970)	\$1.50
28.	BARITE RESOURCES OF TENNESSEE, 40 p., 8 figs., 2 tables, by Stuart W. Maher (1970). History, uses, geology, origin, prospecting, catalog of deposits with location maps	\$3.00
29.	STRUCTURE OF THE DUMPLIN VALLEY FAULT ZONE IN EAST TENNESSEE, 12 p. (reprinted from Southeastern Geology, 1969), 6 figs., by Robert D. Hatcher, Jr. (1970)	\$1.00
31.	PRELIMINARY INVESTIGATIONS OF HEAVY MINERALS IN THE McNAIRY SAND OF WEST TENNESSEE, 11 p., 2 figs., 5 tables, by J.T. Wilcox (1971). Mineralogy, size-distribution characteristics	\$1.50
32.	STREAM SEDIMENT GEOCHEMICAL STUDIES IN NORTHWEST TENNESSEE AND EAST TENNESSEE, 31 p., 16 figs., 2 tables, by Robert H. Carpenter, Gene D. Robinson, and James M. Fagan (1971). Methods and results of geochemical prospecting for lead and zinc. Prepared in cooperation with Tennessee Valley Authority	\$2.00
35.	ANALYSES OF GEOLOGIC MATERIALS, BOONE LAKE AREA, TENNESSEE, 20 p., 1 fig., 3 tables, by Stuart W. Maher (1973). Includes analyses of representative minerals, rocks, and soils from the Boone Lake reservoir area, Sullivan and Carter counties, and briefly reviews the data	\$1.50
36.	FIELD TRIPS IN WEST TENNESSEE, 82 + vi p., 44 figs., 4 tables, 7 contributors (1975). Reprinted (1990). A guide to Southeastern GSA field trips for 1975 including fossiliferous Silurian, Devonian, and Cretaceous formations in the vicinity of Tennessee River; environmental geology of Memphis; geology of Reelfoot Lake and vicinity	\$5.00
37.	FIELD TRIPS IN THE SOUTHERN APPALACHIANS, 91 p., 2 tables, 8 contributors (1978). Reprinted (1990). Companion volume to Bull. 79. Field guide to the southern Appalachians, Tennessee and North Carolina; includes the engineering geology of the Chattanooga area and the Carboniferous depositional environments in the South Cumberland plateau	\$5.00
38.	MISSISSIPPIAN AND PENNSYLVANIAN SECTION ON INTERSTATE 75, SOUTH OF JELLICO, CAMPBELL COUNTY, TENNESSEE, by members of the Sedimentation Seminar, University of Cincinnati (1981). Describes the Mississippian stratigraphy and sedimentation at the border between shelf and miogeosyncline, Mississippian-Pennsylvanian boundary	\$3.50
39.	GUIDE TO THE GEOLOGY ALONG INTERSTATE HIGHWAYS IN TENNESSEE, 79 + viii p., by Robert Lake Wilson (1981). Reprinted (1987). The State of Tennessee possesses a varied topography and a geologic history representative of eastern North America. This book is designed to provide the traveler on the Interstate System a brief synopsis of the geology along each route	\$6.50
40.	STRATIGRAPHY OF THE CHATTANOOGA SHALE IN THE NEWMAN RIDGE AND CLINCH MOUNTAIN AREAS, TENNESSEE, 102 + ii p., 3 pls. by Robert C. Milici and John B. Roen (1981). This report summarizes the stratigraphy of the Chattanooga Shale in the study area. Stratigraphy has been determined from field descriptions of the core and by correlation of the natural gamma logs	\$8.50
41.	MISSISSIPPIAN STRATIGRAPHY OF THE GREENDALE AND NEWMAN RIDGE SYNCLINES AND MIDDLE ORDOVICIAN NOMENCLATURE IN UPPER EAST TENNESSEE, 37 + iv p., 7 figs., by William B. Brent (1982). Introduces new geologic formations and nomenclature, describes the formations, gives detailed measured sections, and assigns type localities	\$3.50
42.	FLUORSPAR IN TENNESSEE, 30 + iv p., 8 tables, 1 plate, by Stuart W. Maher and Barry C. Spencer (1983). Several potentially economic fluorspar deposits have been discovered in Tennessee. The increased use of fluorine compounds and current large imports of fluorite make it desirable to present what is known about Tennessee's fluorine-bearing minerals	\$5.00

43.	EARTH RESISTIVITY AS A TOOL FOR SHALLOW EXPLORATION IN THE REELFOOT LAKE AREA, 70 p., 37 figs., 9 tables, by Richard G. Stearns, Thomas M. Haselton, and Jau-Ping Tsau (1986). Shows earth resistivity to be a geophysical technique for locating faults and other geologic structures in areas where sediments are unconsolidated and outcrops very rare	\$6.00
44-pt. I	THE KARST HYDROGEOLOGY OF THE CUMBERLAND PLATEAU ESCARPMENT OF TENNESSEE, 43 + ix p., 21 figs., 1 table, 5 plates, by Nicholas C. Crawford (1987). This report deals with the subterranean stream invasion, conduit cave development, and slope retreat in the Lost Creek Cove area of White County, Tennessee	\$5.50
44-pt. II	THE KARST HYDROGEOLOGY OF THE CUMBERLAND PLATEAU ESCARPMENT OF TENNESSEE, 41 + ix p., 17 figs., 2 tables, 2 plates, by Nicholas C. Crawford (1989). This report deals with the subterranean stream invasion, conduit cave development, and slope retreat in the Grassy Cove area of Cumberland County, Tennessee	\$5.50
44-pt. III	THE KARST HYDROGEOLOGY OF THE CUMBERLAND PLATEAU ESCARPMENT OF TENNESSEE, 23 + viii p., 11 figs., 1 table, by Nicholas C. Crawford (1992). Deals with karst valley development in the Lost Cove area of Franklin County, Tennessee	\$3.50
44-pt. IV	THE KARST HYDROGEOLOGY OF THE CUMBERLAND PLATEAU ESCARPMENT OF TENNESSEE, 143 + ix p., 64 figs., 13 tables, by Nicholas C. Crawford (1996). Details the completion of a valuable 4 part research project in karst hydrogeology of the Cumberland Plateau escarpment in East Tennessee. Outlines instrumentation of drainage systems. Discusses water sample data. Explains methods used in water and suspended sediment analysis	. \$20.00
45.	GUIDEBOOK OF GEOLOGY AND RELATED HISTORY OF THE CHICKASAW BLUFFS AND MISSISSIPPI RIVER VALLEY IN WEST TENNESSEE, 54 p., 3 tables, 24 figures, by Richard G. Stearns, Ernest W. Blythe, and Michael L. Hoyal (1989). This book details a trip designed to visit physiographic features and related sites of human activity, such as Mound Builder Indian sites, Civil War fortifications and battlefields, and selected modern settlements	\$5.00
46.	PRODUCTION, DISPOSAL, AND UTILIZATION OF COAL COMBUSTION BY-PRODUCTS IN TENNESSEE, 40p., 5 figs., 5 tables, and 5 appendixes, by Otto C. Kopp (1994). Emphasizes the possible economic value of Tennessee coal combustion by-products and the need to utilize them more effectively	\$4.50
47.	REGIONAL SUBSURFACE CORRELATION OF THE PIERCE LIMESTONE AND ADJACENT LIMESTONES OF MIDDLE TENNESSEE, 21 + iip., 9 figs, by James J. Farmer and E. F. Pat Hollyday (1999). Geophysical logs were used to identify, subdivide, and correlate the Murfreesboro, Pierce, and Ridley Limestones. This led to a reinterpretation of the region's stratigraphy as shown on published geologic maps, wherein the thin-bedded unit of the Ridley Limestone had been mapped as the Pierce Limestone	\$2.00
48.	STRUCTURE AND ISOPACH MAPS OF THE CHATTANOOGA SHALE IN TENNESSEE, 28 + 3pls., by James L. Moore and Albert B. Horton (1999). Data from previously-drawn structure maps on the base of the Chattanooga Shale was compiled with a computer-generated map using information from 1615 oil well and surface data points to produce a state-wide structure map on this horizon. The oil well and surface data were likewise computer contoured to produce an isopach map of the formation. A location map of the data points is included. All plates are at a scale of 1:500,000.	\$7.00
49.	HAZARDOUS TRACE ELEMENTS IN TENNESSEE SOILS AND OTHER REGOLITH, 135 p., 25 figs., 25 tables and appendix, by Otto C. Kopp (2001). For each of 24 elements, the book covers general properties and uses, natural occurrences, effects of human activities, and toxicology. Also included are figures showing the counties for which tables of concentration data are presented for each element	\$5.50
50.	X-RAY FLUORESCENCE AND AUTOMATED ANALYSES OF FITY-ONE TENNESSEE COALS, 15 p., 3 figs., 3 tables, 3 appendixes, 1 plate, by Robert C. Price III (2002). Analysis of moisture, volatile matter, fixed carbon, ash, sulphur, and ash fusion temperatures in Tennessee coals by automated analyzer and analysis of 10 elements by x-ray fluorescence methods. Results of two methods are compared.	\$2.50
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